Section II-(A)-g

# Recreational Interpretations

### General

The purpose of these interpretative ratings are to help engineers, planners, and others understand how soil properties influence behavior when used for recreational uses such as camp areas, picnic areas, playgrounds, and paths and trails. Soils are rated for the uses expected to be important or potentially important to users of soil survey information. Ratings for proposed uses are given in terms of limitations. Only the most restrictive features are listed. Other features may need to be treated to overcome soil limitations for a specific purpose.

Soils are rated in their "natural" state, that is, no unusual modification of the soil site or material is made other than that which is considered normal practice for the rated use. Even though soils may have limitations, it is important to remember that engineers and others can modify soil features or can design or adjust the plans for a recreational use to compensate for most degrees of limitations. Most of these practices are costly. The final decision in selecting a site for a particular use generally involves weighing the costs for site preparation and maintenance.

# **Limitation Ratings**

**SLIGHT** - is the rating given soils that have properties favorable for the use. The degree of limitation is minor and can be overcome easily. Good performance and low maintenance can be expected.

**MODERATE** - is the rating given soils that have properties moderately favorable for the use. This degree of limitation can be overcome or modified by special planning, design, or maintenance. During some part of the year, the expected performance is less desirable than for soils rated slight.

**SEVERE** - is the rating given soils that have one or more properties unfavorable for the rated use, such as steep slopes, bedrock near the surface, flooding, or a seasonal high water table. This degree of limitation generally requires major soil reclamation, special design, or intensive maintenance, which in most situations is difficult and costly.

Other important consideration for evaluating a site include:

- ✓ Location and accessibility of the area
- ✓ Size and shape of the area and its scenic quality
- ✓ The ability of the soil to support vegetation
- ✓ Access to water
- ✓ Potential water impoundment sites available
- ✓ Access to public sewer lines or capacity of the soil to absorb septic tank effluent.

# Camp Areas

These are tracts of land used intensively as sites for tents, trailers, campers, and accompanying activities of outdoor living. Camp areas require such site preparation as shaping and leveling in areas for tents and parking areas, for stabilizing roads and intensively used areas, and for installing sanitary facilities and utility lines. Camp areas

are subject to heavy foot traffic and some vehicular traffic. The soils are rated on the basis of soil properties that influence the ease of developing camping area and the performance of the camping area after development. Soil properties that influence trafficability and promote the growth of vegetation after heavy use are also important.

# Picnic Areas

Picnic areas are natural or landscaped tracts used primarily for preparing meals and eating outdoors. These areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking lots. Soils are rated on the basis of properties that influence development costs of shaping the site, trafficability, and growth of vegetation after development. The surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry.

# **Playgrounds**

These are areas used intensively for games such as baseball, football, and similar activities. Playgrounds require a nearly level soil that is free of stones and that can withstand heavy foot traffic and still maintain adequate vegetation. Soils are rated on the basis of properties that influence cost of shaping, trafficability, and growth of vegetation. Slope and stoniness are the main concerns in developing playgrounds. For good trafficability, the surface of playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry.

## Paths and Trails

Paths and trails are used for walking, horseback riding, and similar uses, and should require little or no cutting and filling in site preparation. Soils are rated on properties that influence trafficability and erodibility. Paths and trails should remain firm under foot traffic and not be dusty when dry.

This subsection includes:

• Recreational Site Development

#### Recreation Site Development

Map symbol and soil name	   Camp areas 		   Picnic areas 		   Playgrounds 		Paths and trails	1
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
01B: Union	  Moderately limited  ~percs slowly   (moderately limited)  ~wetness   (moderately limited)	0.39	   Moderately limited   ~percs slowly   (moderately limited)   ~wetness   (slightly limited)	0.39	Moderately limited   ~slope   (moderately limited)   ~percs slowly (moderately limited)   ~wetness   (moderately limited)	0.40	  Slightly limited  ~wetness   (slightly limited) 	0.13
01C: Union	  Moderately limited  ~percs slowly   (moderately limited)  ~wetness   (moderately limited)	1	  Moderately limited  ~percs slowly   (moderately limited)  ~wetness   (slightly limited)	  0.39    0.13 	  Very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)  ~wetness   (moderately limited)	  1.00    0.39    0.35	  Slightly limited  ~wetness   (slightly limited) 	    0.13     
01C2: Union	   Moderately limited   ~percs slowly   (moderately limited)   ~wetness   (moderately limited)	0.39	  Moderately limited  ~percs slowly   (moderately limited)  ~wetness   (slightly limited)	0.39	  very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)  ~wetness   (moderately limited)	  1.00    0.39    0.35	  Slightly limited  ~wetness   (slightly limited) 	0.13
01D2: Union	Limited  -slope   (limited)  -percs slowly   (moderately limited)  -wetness   (moderately limited)	0.35	Limited  -slope (limited)  -percs slowly (moderately limited)  -wetness (slightly limited)	  0.63    0.39    0.13	  Very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)  ~wetness   (moderately limited)	  1.00    0.39    0.35	  Very limited  ~erodes easily  (very limited)  ~wetness  (slightly limited)	1.00

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	3
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
02F:		 		 		 		
Coulstone	Very limited  ~slope   (very limited)	1.00	Very limited  ~slope   (very limited)	1.00	Very limited  ~slope   (very limited)	1.00	Limited  ~slope   (limited)	0.92
	<pre> ~small stones   (moderately limited)</pre>	0.46	~small stones   (moderately limited)		~small stones   (very limited)	1.00	(111000)	
	~too acid   (slightly limited)	0.24	~too acid   (slightly limited)	0.24	~too acid   (slightly limited)	0.24		
03A:			 					
Racoon	Very limited  ~wetness   (very limited)  ~percs slowly   (moderately limited)	  1.00    0.39	Very limited  ~wetness   (very limited)  ~percs slowly   (moderately limited)	  1.00    0.39	Very limited  ~wetness   (very limited)  ~percs slowly   (moderately limited)	  1.00    0.39	Very limited  ~wetness   (very limited) 	1.00
04A: Freeburg	    Moderately limited	   	    Slightly limited		    Moderately limited	   	    Slightly limited	
	<pre>~wetness ( moderately limited) ~percs slowly ( slightly limited)</pre>	0.35	<pre>~wetness   (slightly limited)  ~percs slowly   (slightly limited)</pre>	0.13	(moderately limited)	0.35	<pre>~wetness   (slightly limited)    </pre>	0.13
05B: Hartville	~percs slowly	0.39	  Moderately limited  ~percs slowly	0.39	  Moderately limited  ~slope	0.40	  Slightly limited  ~wetness	0.13
	<pre>( (moderately limited)  ~wetness   (moderately limited)  </pre>	  0.35 	(moderately limited)  ~wetness   (slightly limited)	0.13	(moderately limited)  ~percs slowly   (moderately limited)  ~wetness	  0.39    0.35	(slightly limited)    -  -	
		İ			(moderately limited)			İ

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	3
	Rating class and limiting features	Value 	Rating class and limiting features	Value 	Rating class and limiting features	Value   	Rating class and limiting features	Value
05C: Hartville	   Moderately limited  ~percs slowly   (moderately limited)  ~wetness   (moderately limited)	0.39	   Moderately limited  ~percs slowly   (moderately limited)  ~wetness   (slightly limited)	0.39	Very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)  ~wetness   (moderately limited)	    1.00    0.39    0.35	  Slightly limited  ~wetness   (slightly limited) 	0.13
06C2: Bucklick	  Not limited 		  Not limited 	       	  Very limited  ~slope   (very limited)	    1.00	  Not limited 	
06D2: Bucklick	  Limited  ~slope   (limited)	    0.63 	  Limited  ~slope   (limited)	0.63	  Very limited  ~slope   (very limited)	1.00	  Very limited  ~erodes easily   (very limited)	1.00
07B: Menfro	  Not limited 	     	  Not limited 	     	  Moderately limited  ~slope   (moderately limited)	0.40	  Not limited 	
07C: Menfro	  Not limited		  Not limited	       	Very limited ~slope (very limited)	1.00	  Not limited	
07E2: Menfro	  Very limited  ~slope   (very limited)	    1.00   	  Very limited  ~slope   (very limited) 	    1.00     	  Very limited  ~slope   (very limited) 	    1.00     	  Very limited  ~erodes easily  (very limited)  ~slope  (slightly limited)	1.00

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value 	Rating class and limiting features	Value 	Rating class and limiting features	Value 	Rating class and limiting features	Value
10F:								
Gasconade	Very limited	İ	Very limited	İ	Very limited	İ	Limited	İ
	~percs slowly	1.00	~percs slowly	1.00	~small stones	1.00	~slope	0.92
	(very limited)	ĺ	(very limited)	İ	(very limited)	İ	(limited)	ĺ
	~slope	1.00	~slope	1.00	-percs slowly	1.00	-too clayey	0.60
	(very limited)		(very limited)	ļ	(very limited)		(moderately limited)	
	~too clayey	0.60	~too clayey	0.60	~slope	1.00		
	(moderately limited)		(moderately limited)	ļ	(very limited)			
11:		ļ	 					
Dockery	  Very limited	 	  Moderately limited		  Very limited		  Moderately limited	
DOCKETY	~flooding	1	~flooding	I In 60	~flooding	1.00	~flooding	0.60
	(very limited)	1.00	(moderately limited)	1	(very limited)	1.00	(moderately limited)	0.00
				İ	(		(	İ
12:		į		j		j	İ	İ
Bremer	Limited		Limited		Limited		Limited	
	~wetness	0.96	~wetness	0.60	~wetness	0.96	~wetness	0.60
	(limited)		(limited)		(limited)		(limited)	
	<pre> ~too clayey   (moderately limited)</pre>	0.60	~too clayey	0.60	~too clayey	0.60	-too clayey	0.60
	(moderately limited)  ~percs slowly	  0.13	(moderately limited)  ~percs slowly	  0.13	(moderately limited)  ~percs slowly	  0.13	(moderately limited)	
	~percs slowly   (slightly limited)	U.13	(slightly limited)	U.13	~percs slowly   (slightly limited)	10.13		
	(Silghely limited)	1	(Slightly limited)	1	(Silghely limited)			
13A:		<u> </u>		i			i	
Auxvasse	Very limited	İ	  Very limited	İ	Very limited		Limited	
	~percs slowly	1.00	~percs slowly	1.00	~percs slowly	1.00	~wetness	0.60
	(very limited)	ĺ	(very limited)	İ	(very limited)	İ	(limited)	İ
	~wetness	0.96	~wetness	0.60	~wetness	0.96		
	(limited)	ļ	(limited)	ļ	(limited)	ļ	1	
16.								
16: Waldron	  Very limited	 	  Very limited		  Very limited		  Very limited	
watur Oii	very rimited  ~too clayey	  1.00	very rimited  ~too clayey	1 00	very rimited  ~too clayey	1 00	~too clayey	1.00
	(very limited)		(very limited)	00	(very limited)	00	(very limited)	
	~flooding	1.00	~percs slowly	0.39	~flooding	0.60	~wetness	0.28
	(very limited)	i	(moderately limited)		(moderately limited)	İ	(slightly limited)	İ
	~wetness	0.50	~wetness	0.28	~wetness	0.50		İ
	(moderately limited)		(slightly limited)		(moderately limited)			

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas	Picnic areas			Paths and trails	3
	Rating class and limiting features	Value   	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
17D: Wilderness	<pre>~wetness (limited) ~small stones (limited)</pre>	0.96	  Limited  ~small stones  (limited)  ~slope  (limited)  ~wetness	  0.63 	Very limited  ~slope   (very limited)  ~small stones   (very limited)	      1.00    1.00	  Limited  ~wetness   (limited)	0.60
19:	~slope   (limited) 	0.63   	~wethess   (limited) 	0.60     	~wetness   (limited) 	0.96     		
Haynie	Very limited  ~flooding   (very limited)	  1.00 	Not limited   	     	Moderately limited ~flooding (moderately limited)	  0.60 	Not limited   	
20: Sarpy	  Very limited  ~flooding   (very limited)  ~too sandy   (very limited)	1.00	  Very limited  ~too sandy   (very limited)  ~flooding   (moderately limited)	1.00    0.60	Very limited  -flooding (very limited)  -too sandy (very limited)	İ	  Very limited  ~too sandy   (very limited)  ~flooding   (moderately limited)	1.00
23F:								
Weingarten	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	Ϊ	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)		Very limited  -slope (very limited)  -percs slowly (slightly limited)	  1.00    0.13	Very limited  ~erodes easily   (very limited)  ~slope   (very limited)	1.00
Gatewood	  very limited  ~slope   (very limited)  ~percs slowly   (very limited)  ~wetness   (moderately limited)	  0.35	  Very limited  ~slope   (very limited)  ~percs slowly   (very limited)  ~wetness   (slightly limited)	1.00	   Very limited   ~percs slowly   (very limited)   ~slope   (very limited)   ~small stones   (limited)	  1.00    1.00    0.74	  very limited  ~slope   (very limited)  ~wetness   (slightly limited)	1.00

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value 	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
24F:				 				
Gatewood	Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~wetness   (moderately limited)	  1.00    0.35	Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~wetness   (slightly limited)	  1.00    1.00    0.13	(very limited)	  1.00    1.00    0.74	Limited  ~slope   (limited)  ~wetness   (slightly limited) 	  0.92    0.13   
26D: Beemont	Very limited   ~percs slowly   (very limited)   ~small stones   (moderately limited)   ~slope   (slightly limited)	  1.00    0.50    0.16	  Very limited  ~percs slowly   (very limited)  ~small stones   (moderately limited)  ~slope   (slightly limited)	  1.00    0.50    0.16	<pre>(very limited)  ~small stones (very limited)</pre>	  1.00  1.00  1.00	  Not limited   	
26F: Beemont	Very limited   ~percs slowly   (very limited)   ~slope   (very limited)   ~small stones   (limited)	ĺ	  Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~small stones   (limited)	  1.00    1.00    0.65	  Very limited  ~small stones   (very limited)  ~slope   (very limited)  ~percs slowly   (very limited)	  1.00    1.00    1.00	  Limited  ~slope   (limited)  ~large surface stones   (slightly limited)	  0.92    0.13 
28C: Weingarten	  Slightly limited  ~percs slowly   (slightly limited)	    0.13     	  Slightly limited  ~percs slowly   (slightly limited)		  Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	  1.00    0.13	  Not limited 	

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds 		Paths and trails	3
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
28D2:								
Weingarten	Limited  ~slope   (limited)  ~percs slowly   (slightly limited)		Limited  ~slope   (limited)  ~percs slowly   (slightly limited)		Very limited  -slope (very limited)  -percs slowly (slightly limited)	1.00	Very limited   ~erodes easily   (very limited)	1.00
28E2:								
Weingarten	  very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	İ	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	İ	Very limited  -slope (very limited)  -percs slowly (slightly limited)	İ	Very limited  -erodes easily  (very limited)  -slope  (slightly limited)	  1.00    0.25
31D:								
Bucklick	Slightly limited  ~slope   (slightly limited)	  0.16 	  Slightly limited  ~slope   (slightly limited)	  0.16 	  very limited  ~slope   (very limited)	1.00	  Very limited  ~erodes easily   (very limited)	1.00
Beemont	   Very limited   ~percs slowly   (very limited)   ~small stones   (moderately limited)   ~slope   (slightly limited)	0.50	  Very limited  ~percs slowly   (very limited)  ~small stones   (moderately limited)  ~slope   (slightly limited)	  0.50 	   Very limited   ~percs slowly   (very limited)   ~small stones   (very limited)   ~slope   (very limited)	1.00	   Not limited       	
Moko	Limited  ~shallow to bedrock  (limited)  ~large stones  (limited)  ~slope  (slightly limited)	0.77	Limited  ~shallow to bedrock  (limited)  ~large stones  (limited)  ~slope  (slightly limited)	İ	Very limited  -large stones >25%   (very limited)  -shallow to bedrock   (very limited)  -slope   (very limited)	1.00	Limited  ~large stones   (limited)	0.77
32:								
Pits	Not rated		Not rated		Not rated		Not rated	

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value   	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
35A: Glensted	Very limited   -wetness   (very limited)   -percs slowly   (moderately limited)	      1.00    0.39	  Limited  ~wetness   (limited)  ~percs slowly   (moderately limited)	0.99	  Very limited  ~wetness   (very limited)  ~percs slowly   (moderately limited)	1.00	  Limited  ~wetness   (limited)	0.99
35B: Glensted	  Very limited  ~wetness   (very limited)  ~percs slowly   (moderately limited)	    1.00    0.39	  Limited  ~wetness   (limited)  ~percs slowly   (moderately limited)	0.99	  Very limited  ~wetness   (very limited)  ~slope   (moderately limited)  ~percs slowly   (moderately limited)	  1.00  0.40  0.39	  Limited  ~wetness   (limited) 	0.99
37: Marion	Very limited   ~percs slowly   (very limited)   ~wetness   (limited)	  1.00    0.96	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)	  1.00    0.60	  Very limited  ~percs slowly  (very limited)  ~wetness  (limited)	  1.00    0.96	  Limited  ~wetness   (limited)	    0.60   
39: Nolin	  Very limited  ~flooding   (very limited)	1.00	  Moderately limited  ~flooding   (moderately limited)	1	  Very limited  ~flooding   (very limited)	1.00	  Moderately limited  ~flooding   (moderately limited)	    0.60 
43: Cedargap	  Very limited  ~flooding   (very limited)  ~small stones   (limited)	  1.00    0.99	  Very limited  ~small stones   (limited)  ~flooding   (moderately limited)	0.60	  Very limited  ~flooding   (very limited)  ~small stones   (very limited)  ~large stones   (slightly limited)	  1.00    1.00    0.01	  Moderately limited  ~flooding   (moderately limited) 	0.60

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value   	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
45: Pope	  Very limited  ~flooding   (very limited)  ~too acid   (slightly limited)	    1.00    0.24	  Slightly limited  ~too acid   (slightly limited)   	0.24	Moderately limited   ~flooding   (moderately limited)   ~too acid   (slightly limited)   ~small stones   (slightly limited)	    0.60    0.24  0.15	  Not limited     	
49A: Gladden	  Very limited  ~flooding   (very limited)	    1.00 	  Moderately limited  ~flooding   (moderately limited)	    0.60   	  Very limited  ~flooding   (very limited)  ~small stones   (slightly limited)	    1.00    0.15	  Moderately limited  ~flooding   (moderately limited)	0.60
51F: Beemont	Very limited   ~percs slowly   (very limited)   ~slope   (very limited)   ~small stones   (moderately limited)	  1.00    1.00    0.50	  Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~small stones   (moderately limited)	1.00	Very limited  -slope (very limited) -percs slowly (very limited) -small stones (very limited)	1.00	  Limited  ~slope   (limited) 	  0.92     
Ramsey	Very limited   ~slope   (very limited)   ~shallow to bedrock   (limited)   ~percs slowly   (moderately limited)	  1.00    0.90    0.39	  very limited  ~slope   (very limited)  ~shallow to bedrock   (limited)  ~percs slowly   (moderately limited)	  1.00    0.90    0.39	  very limited   ~slope   (very limited)   ~shallow to bedrock   (very limited)   ~percs slowly   (moderately limited)	1.00	Limited  ~slope   (limited)	  0.92       

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trail	S
	Rating class and limiting features	Value   	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value   _
60F:								
Menfro	Very limited  ~slope   (very limited) 	  1.00   	Very limited  ~slope   (very limited)	1.00	Very limited  ~slope   (very limited) 	1.00	Very limited  ~erodes easily   (very limited)  ~slope   (very limited)	1.00
Gatewood	  Very limited  ~slope   (very limited)  ~percs slowly   (very limited)  ~wetness   (moderately limited)	  1.00  1.00  1.00    0.35	  Very limited  ~slope   (very limited)  ~percs slowly   (very limited)  ~wetness   (slightly limited)	1.00	Very limited  ~percs slowly  (very limited)  ~slope  (very limited)  ~small stones  (limited)	  1.00    1.00    0.74	  Very limited  ~slope   (very limited)  ~wetness   (slightly limited)	1.00
M-W: Miscellaneous water	  Not rated		    Not rated 		    Not rated 		    Not rated 	
W: Water	  Not rated 		Not rated		Not rated		  Not rated 	